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0124

#17

ENTERED

See page 6



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## RAW SEQUENCE LISTING

DATE: 01/27/2003

PATENT APPLICATION: US/10/028,075B

TIME: 10:08:11

Input Set : D:\Sequence Listing2 Version2 txt.asc

Output Set: N:\CRF4\01242003\J028075B.raw

3 <110> APPLICANT: Khan, Nisar A.  
 4 Benner, Robert  
 6 <120> TITLE OF INVENTION: Gene regulator  
 8 <130> FILE REFERENCE: 2183-5223US  
 10 <140> CURRENT APPLICATION NUMBER: 10/028,075B  
 11 <141> CURRENT FILING DATE: 2001-12-21  
 13 <150> PRIOR APPLICATION NUMBER: EP 01203748.7  
 14 <151> PRIOR FILING DATE: 2001-10-04  
 16 <160> NUMBER OF SEQ ID NOS: 175  
 18 <170> SOFTWARE: PatentIn Ver. 2.1  
 20 <210> SEQ ID NO: 1  
 21 <211> LENGTH: 4  
 22 <212> TYPE: PRT  
 23 <213> ORGANISM: Artificial Sequence  
 25 <220> FEATURE:  
 26 <223> OTHER INFORMATION: Description of Artificial Sequence: oligopeptide  
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 29 Leu Gln Gly Val  
 30 1  
 32 <210> SEQ ID NO: 2  
 33 <211> LENGTH: 4  
 34 <212> TYPE: PRT  
 35 <213> ORGANISM: Artificial Sequence  
 37 <220> FEATURE:  
 38 <223> OTHER INFORMATION: Description of Artificial Sequence: oligopeptide  
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 41 Ala Gln Gly Val  
 42 1  
 44 <210> SEQ ID NO: 3  
 45 <211> LENGTH: 6  
 46 <212> TYPE: PRT  
 47 <213> ORGANISM: Artificial Sequence  
 49 <220> FEATURE:  
 50 <223> OTHER INFORMATION: Description of Artificial Sequence: oligopeptide  
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 53 Val Leu Pro Ala Leu Pro  
 54 1 5  
 56 <210> SEQ ID NO: 4  
 57 <211> LENGTH: 16  
 58 <212> TYPE: PRT  
 59 <213> ORGANISM: Artificial Sequence  
 61 <220> FEATURE:  
 62 <223> OTHER INFORMATION: Description of Artificial Sequence: swiss/p36507/MPK2 Human

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65 Met Leu Ala Arg Arg Lys Pro Val Leu Pro Ala Leu Thr Ile Asn Pro
66   1                               5               10               15
68 <210> SEQ ID NO: 5
69 <211> LENGTH: 7
70 <212> TYPE: PRT
71 <213> ORGANISM: Artificial Sequence
73 <220> FEATURE:
74 <223> OTHER INFORMATION: Description of Artificial Sequence: swiss/p36507/MPK2 Human
76 <400> SEQUENCE: 5
77 Met Leu Ala Arg Arg Lys Pro
78   1                               5
80 <210> SEQ ID NO: 6
81 <211> LENGTH: 4
82 <212> TYPE: PRT
83 <213> ORGANISM: Artificial Sequence
85 <220> FEATURE:
86 <223> OTHER INFORMATION: Description of Artificial Sequence: swiss/p36507/MPK2 Human
88 <400> SEQUENCE: 6
89 Met Leu Ala Arg
90   1
92 <210> SEQ ID NO: 7
93 <211> LENGTH: 6
94 <212> TYPE: PRT
95 <213> ORGANISM: Artificial Sequence
97 <220> FEATURE:
98 <223> OTHER INFORMATION: Description of Artificial Sequence: swiss/p36507/MPK2 Human
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101 Val Leu Pro Ala Leu Thr
102   1                               5
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106 <212> TYPE: PRT
107 <213> ORGANISM: Artificial Sequence
110 <220> FEATURE:
111 <223> OTHER INFORMATION: Description of Artificial Sequence:
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114 <400> SEQUENCE: 8
115 Val Leu Pro Ala Leu
116   1                               5
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120 <212> TYPE: PRT
121 <213> ORGANISM: Artificial Sequence
123 <220> FEATURE:
124 <223> OTHER INFORMATION: Description of Artificial Sequence:
125     pdb/4NOS/4NOS-A
127 <400> SEQUENCE: 9
128 Phe Pro Gly Cys

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129 1  
131 <210> SEQ ID NO: 10  
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133 <212> TYPE: PRT  
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137 <223> OTHER INFORMATION: Description of Artificial Sequence: Hs.297775.1  
139 <400> SEQUENCE: 10  
140 Pro Gly Cys Pro  
141 1  
143 <210> SEQ ID NO: 11  
144 <211> LENGTH: 7  
145 <212> TYPE: PRT  
146 <213> ORGANISM: Artificial Sequence  
148 <220> FEATURE:  
149 <223> OTHER INFORMATION: Description of Artificial Sequence:  
150 swiss/P81272/NS2B HUMAN  
152 <400> SEQUENCE: 11  
153 Gly Val Leu Pro Ala Val Pro  
154 1 5  
156 <210> SEQ ID NO: 12  
157 <211> LENGTH: 6  
158 <212> TYPE: PRT  
159 <213> ORGANISM: Artificial Sequence  
161 <220> FEATURE:  
162 <223> OTHER INFORMATION: Description of Artificial Sequence:  
163 swiss/P81272/NS2B HUMAN  
165 <400> SEQUENCE: 12  
166 Val Leu Pro Ala Val Pro  
167 1 5  
169 <210> SEQ ID NO: 13  
170 <211> LENGTH: 4  
171 <212> TYPE: PRT  
172 <213> ORGANISM: Artificial Sequence  
174 <220> FEATURE:  
175 <223> OTHER INFORMATION: Description of Artificial Sequence:  
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179 Pro Ala Val Pro  
180 1  
182 <210> SEQ ID NO: 14  
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184 <212> TYPE: PRT  
185 <213> ORGANISM: Artificial Sequence  
187 <220> FEATURE:  
188 <223> OTHER INFORMATION: Description of Artificial Sequence: oligopeptide  
190 <400> SEQUENCE: 14  
191 Leu Gln Gly Val Val Pro Arg Gly Val  
192 1 5

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DATE: 01/27/2003

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Input Set : D:\Sequence Listing2 Version2 txt.asc

Output Set: N:\CRF4\01242003\J028075B.raw

194 <210> SEQ ID NO: 15  
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200 <223> OTHER INFORMATION: Description of Artificial Sequence: oligopeptide  
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203 Gly Val Val Pro  
204 1  
206 <210> SEQ ID NO: 16  
207 <211> LENGTH: 5  
208 <212> TYPE: PRT  
209 <213> ORGANISM: Artificial Sequence  
211 <220> FEATURE:  
212 <223> OTHER INFORMATION: Description of Artificial Sequence: oligopeptide  
214 <400> SEQUENCE: 16  
215 Val Pro Arg Gly Val  
216 1 5  
220 <210> SEQ ID NO: 17  
221 <211> LENGTH: 4  
222 <212> TYPE: PRT  
223 <213> ORGANISM: Artificial Sequence  
225 <220> FEATURE:  
226 <223> OTHER INFORMATION: Description of Artificial Sequence: oligopeptide  
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229 Pro Arg Gly Val  
230 1  
232 <210> SEQ ID NO: 18  
233 <211> LENGTH: 5  
234 <212> TYPE: PRT  
235 <213> ORGANISM: Artificial Sequence  
237 <220> FEATURE:  
238 <223> OTHER INFORMATION: Description of Artificial Sequence: polypeptide  
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244 <210> SEQ ID NO: 19  
245 <211> LENGTH: 4  
246 <212> TYPE: PRT  
247 <213> ORGANISM: Artificial Sequence  
249 <220> FEATURE:  
250 <223> OTHER INFORMATION: Description of Artificial Sequence: oligopeptide  
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253 Leu Gln Gly Ala  
254 1  
256 <210> SEQ ID NO: 20  
257 <211> LENGTH: 10  
258 <212> TYPE: PRT  
259 <213> ORGANISM: Artificial Sequence

## RAW SEQUENCE LISTING

DATE: 01/27/2003

PATENT APPLICATION: US/10/028,075B

TIME: 10:08:11

Input Set : D:\Sequence Listing2 Version2 txt.asc

Output Set: N:\CRF4\01242003\J028075B.raw

261 <220> FEATURE:  
262 <223> OTHER INFORMATION: Description of Artificial Sequence: oligopeptide  
264 <400> SEQUENCE: 20  
265 Val Leu Pro Ala Leu Pro Gln Val Val Cys  
266 1 5 10  
267 <210> SEQ ID NO: 21  
268 <211> LENGTH: 6  
269 <212> TYPE: PRT  
270 <213> ORGANISM: Artificial Sequence  
273 <220> FEATURE:  
274 <223> OTHER INFORMATION: Description of Artificial Sequence: oligopeptide  
276 <400> SEQUENCE: 21  
277 Ala Leu Pro Ala Leu Pro  
278 1 5  
280 <210> SEQ ID NO: 22  
281 <211> LENGTH: 6  
282 <212> TYPE: PRT  
283 <213> ORGANISM: Artificial Sequence  
285 <220> FEATURE:  
286 <223> OTHER INFORMATION: Description of Artificial Sequence: oligopeptide  
288 <400> SEQUENCE: 22  
289 Val Ala Pro Ala Leu Pro  
290 1 5  
292 <210> SEQ ID NO: 23  
293 <211> LENGTH: 7  
294 <212> TYPE: PRT  
295 <213> ORGANISM: Artificial Sequence  
297 <220> FEATURE:  
298 <223> OTHER INFORMATION: Description of Artificial Sequence: oligopeptide  
300 <400> SEQUENCE: 23  
301 Ala Leu Pro Ala Leu Pro Gln  
302 1 5  
304 <210> SEQ ID NO: 24  
305 <211> LENGTH: 7  
306 <212> TYPE: PRT  
307 <213> ORGANISM: Artificial Sequence  
309 <220> FEATURE:  
310 <223> OTHER INFORMATION: Description of Artificial Sequence: oligopeptide  
312 <400> SEQUENCE: 24  
313 Val Leu Pro Ala Ala Pro Gln  
314 1 5  
316 <210> SEQ ID NO: 25  
317 <211> LENGTH: 7  
318 <212> TYPE: PRT  
319 <213> ORGANISM: Artificial Sequence  
321 <220> FEATURE:  
322 <223> OTHER INFORMATION: Description of Artificial Sequence: oligopeptide  
324 <400> SEQUENCE: 25  
325 Val Leu Pro Ala Leu Ala Gln

RAW SEQUENCE LISTING ERROR SUMMARY      DATE: 01/27/2003  
PATENT APPLICATION:    US/10/028,075B      TIME: 10:08:12

Input Set : D:\Sequence Listing2 Version2 txt.asc  
Output Set: N:\CRF4\01242003\J028075B.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:97; Xaa Pos. 2

Seq#:98; Xaa Pos. 2

## VERIFICATION SUMMARY

DATE: 01/27/2003

PATENT APPLICATION: US/10/028,075B

TIME: 10:08:12

Input Set : D:\Sequence Listing2 Version2 txt.asc

Output Set: N:\CRF4\01242003\J028075B.raw

L:1272 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:97 after pos.:0

L:1291 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:98 after pos.:0